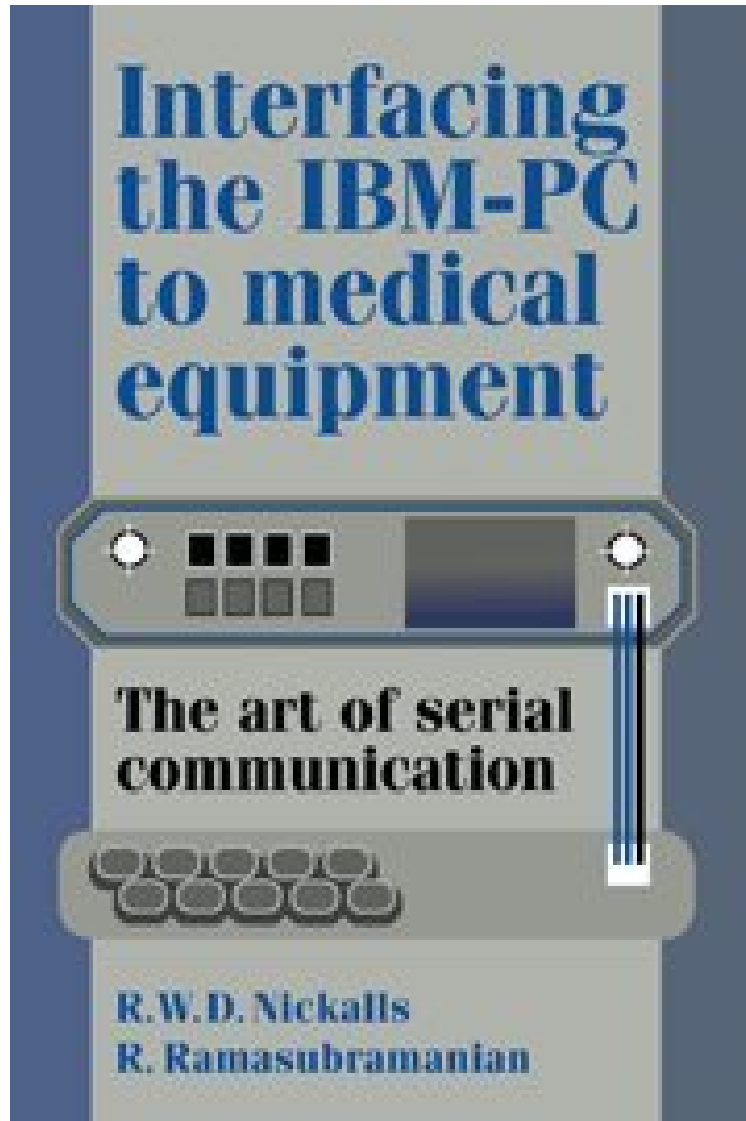


# Interfacing the IBM-PC to Medical Equipment: The Art of Serial Communication

*Richard W. D. Nickalls, R. Ramasubramanian*  
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**Richard W. D. Nickalls, R. Ramasubramanian : Interfacing the IBM-PC to Medical Equipment: The Art of Serial Communication** before purchasing it in order to gauge whether or not it would be worth my time, and all praised Interfacing the IBM-PC to Medical Equipment: The Art of Serial Communication:

1 of 1 people found the following review helpful. Very useful to Dos programmers By dr. Massimo Di Tullio It is fantastic for non Windows programmers (... the real programmers ) having no previous experience of assembler or C

language. It explains very well how to interface serial device. I have successfully used it to interface my computerized clinical analyzer. It is expensive but really works.

This book describes the techniques used for interfacing a PC to a range of medical equipment used internationally in the areas of anesthesia, intensive care, surgery, respiratory medicine and physiology. The first part of the book addresses serial interface, including the RS-232 Standard, transmission of data, and an introduction to serial-interface programming using Microsoft QuickBASIC. The second looks at electrical safety, and the use of Kermit and data analysis. Finally, the third part of this volume considers the practical aspects of interfacing a PC to a wide range of equipment and includes example programs for collecting data and in some cases for controlling the equipment directly.

"...a comprehensive text on the methods of serial communication...Students of medicine or computer engineering, researchers, anesthesiologists, respiratory therapists, and anyone involved in critical care monitoring will find this book of immense value...This compilation will prove to be of great assistance to anyone interested in serial connectivity, especially to one of the 10 pieces of equipment specifically covered in the last section. The subject is completely covered from conceptual basics to actual implementation. The authors have succeeded in condensing the myriad of references, technical manuals, and other information normally necessary to accomplish this often confusing task." John J. Fino, Jr., Doody's Health Sciences Book Journal

From the Back Cover

As computerisation in the medical environment has increased, so the advantages of storage and computer analysis of data from various monitoring and measuring equipment have become well recognised. Most medical monitoring and measurement equipment now supports an RS-232 serial interface and therefore allows data to be accessed directly by computer as well as enabling the computer to have control in its turn over the monitoring equipment. This book describes the techniques used for interfacing a PC to a range of medical equipment used internationally in the areas of anaesthesia, intensive care, surgery, respiratory medicine and physiology. This essential practical information constitutes a valuable resource for a very broad audience of PC and measurement equipment users in the medical field.